LETTERS  “Human Life” Testimony: J. C. Hickman; B. G. Boving; B. Libet; Genetic Influence on Behavior: W. Irons; Hubbert’s Estimates: E. F. Osborn; [Graphs, Not Punctuation]: E. P. Hamp; A. Abbott  ........................................................................  154

EDITORIAL  The Fate of the Seed Corn: D. A. Bromley  ........................................................................  159

ARTICLES  Tropical Archeoastronomy: A. F. Aveni  ........................................................................  161

Studies in Histocompatibility: G. D. Snell  ........................................................................  172

The Agriculture Grants Program: D. W. Kroghmann and J. Key  ........................................................................  178

NEWS AND COMMENT  Keyworth Gives First Policy Speech  ........................................................................  183

Reagan Officials Discuss Science Budget  ........................................................................  184

Court Upholds Controversial Regulations  ........................................................................  185

Briefing: Ariane Is a Success; Soviets Sentence Scientist to 5 Years in Exile; Perchon: Entrepreneurial Exuberance in Space; Rostow Confirmed as Hard-Liner Head of ACDA; Denis Hayes Fired from SERI  ........................................................................  186

The U.S. Flight from Pilotless Planes  ........................................................................  188

RESEARCH NEWS  CERN Sets Intermediate Vector Boson Hunt  ........................................................................  191

Coronary Treatment Assessed  ........................................................................  195

ANNUAL MEETING  Call for Contributed Papers  ........................................................................  196

AAAS NEWS  Energy Seminars Address a Range of Concerns: J. Wrather; Media Fellows Begin Assignments; AAAS/NASW Host Chinese Science Writers Delegation: L. A. Levey; The Clearinghouse on Science and Human Rights; Division Meeting at Greeley Highlights the Unusual: R. A. Scribner; AAAS Alaska Division Announces Its 32nd Annual Meeting; AAAS Travelers; Arms Control Committee Established; Obituaries  ........................................................................  197

BOOK REVIEWS  The Winning Weapon, reviewed by M. P. Leffier; Taking Your Medicine, A. P. Williams; Bacterial Chemotaxis as a Model Behavioral System, G. L. Hazelbauer; The Physics and Chemistry of Low Dimensional Solids, J. C. Scott; Books Received  ........................................................................  201

BOARD OF DIRECTORS

FREDERICK MOSTELLER

President, Chairman

D. ALLAN BROMLEY

President

E. MARGARET BURBIDGE

President-Elect

ELIOSE E. CLARK

E. DAVID, JR.

NANCIE L. GONZALEZ

DAVID A. HAMBURG

MATHEMATICS (A)  Ralph P. Boas

Ronald Graham

PHYSICS (B)  Maurice Goldhaber

Rolf M. Sinclair

SOCIAL, ECONOMIC, AND POLITICAL SCIENCES (K)  James G. March

Gillian Lind

HISTORY AND PHILOSOPHY OF SCIENCE (L)  Harry Wool

ENTREPRENEURIAL SCIENCE (M)  R. A. Scribner

ASTRONOMY (E)  Owen Gingerich

Doron G. Gorenstein

E. M. Morley

PHARMACEUTICAL SCIENCES (S)  Anthony P. Simonelli

Robert A. Wiley

INFORMATION, COMPUTING, AND COMMUNICATION (T)  George W. Trussel

Madeleine M. Henderson

EDUCATION (G)  Ann C. Novot

Roger G. Ostdad

DENTISTRY (H)  Maynard K. Hine

H. M. Futterman

DIVISIONS

ALASKA DIVISION

PACIFIC DIVISION

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION

T. Neil Davis

Executive Secretary

Robert I. Bowman

Executive Director

Alan E. Leviton

President

Max P. Dunford

Executive Officer

Max P. Dunford

President

RESEARCH NEWS

CERN Sets Intermediate Vector Boson Hunt

Coronary Treatment Assessed

ANNUAL MEETING

Call for Contributed Papers

AAAS NEWS

Energy Seminars Address a Range of Concerns: J. Wrather; Media Fellows Begin Assignments; AAAS/NASW Host Chinese Science Writers Delegation: L. A. Levey; The Clearinghouse on Science and Human Rights; Division Meeting at Greeley Highlights the Unusual: R. A. Scribner; AAAS Alaska Division Announces Its 32nd Annual Meeting; AAAS Travelers; Arms Control Committee Established; Obituaries

BOOK REVIEWS

The Winning Weapon, reviewed by M. P. Leffier; Taking Your Medicine, A. P. Williams; Bacterial Chemotaxis as a Model Behavioral System, G. L. Hazelbauer; The Physics and Chemistry of Low Dimensional Solids, J. C. Scott; Books Received
REPORTS

The Marine Geochemistry of Germanium: Ekasilicon: P. N. Froelich, Jr., and M. O. Andreae .................................................. 205

Lateral P-Velocity Gradients near Major Strike-Slip Faults in California: D. J. Stierman and S. O. Zappe ................................................. 207

Generation of Stabilized Microbubbles in Seawater: B. D. Johnson and R. C. Cooke ................................................................. 209


Constraints on the Formation of Sedimentary Dolomite: P. A. Baker and M. Kastner ................................................................. 214

Thyrotropin-Releasing Hormone Improves Cardiovascular Function in Experimental Endotoxic and Hemorrhagic Shock: J. W. Holaday, R. J. D'Amato, A. I. Faden .................................................. 216

Epidermal Growth Factor Enhances Viral Transformation of Granulosa Cells: J. Harrison and N. Auersperg ........................................ 218

Power Spectrum Analysis of Heart Rate Fluctuation: A Quantitative Probe of Beat-to-Beat Cardiovascular Control: S. Akelrod et al. ... 220

Reaction of Monosaccharides with Proteins: Possible Evolutionary Significance: H. F. Bunn and P. J. Higgins ............................... 222

Calcium Dependence of the Inactivation of Calcium Currents in Skeletal Muscle Fibers of an Insect: F. M. Ashcroft and P. R. Stanfield ...... 224

Three Distinct Genes in Human DNA Related to the Transforming Genes of Mammalian Sarcoma Retroviruses: F. Wong-Staal et al. ........ 226

Perivascular Meningeal Projections from Cat Trigeminal Ganglia: Possible Pathway for Vascular Headaches in Man: M. Mayberg et al. ... 228


Brain Tumors in Children and Occupational Exposure of Parents: J. M. Peters, S. Preston-Martin, M. C. Yu ........................................... 235

The Diaphragm: Two Muscles: A. De Troyer et al. ........................................ 237

Chloramphenicol Administration During Brain Development: Impairment of Avoidance Learning in Adulthood: A. Bertolini and R. Poggioli ................... 238

Fetal Female Rats Are Masculinized by Male Littermates Located Caudally in the Uterus: R. L. Meisel and I. L. Ward .............................. 239


Brain 5β-Reductase: A Correlate of Behavioral Sensitivity to Androgen: J. B. Hutchison and T. Steimer ............................................. 244


COVER

The role of environment in the development of astronomical systems is illustrated by the hypothetical navigator in tropical latitudes who finds his island destination by mnemonic association with a particular linear constellation composed of member stars that rise or set vertically with respect to the direction of that island in the horizon plane. The two members of the chain, connected by a dashed line in the illustration, can be recognized by astronomers in north temperate latitudes as part of a different star pattern—the well-known constellation of Orion. See page 161. [Sketch by Julia Meyerson, Colgate University, Hamilton, New York 13346]